



NC House Select Committee October 24, 2016

Hurricane Matthew Logistics and Response

Mike Holder, PE



# TROPICAL WEATHER OUTLOOK

ReadyNC NORTH CAROLINA

Valid Saturday, October 08, 2016

#### Hurricane MATTHEW [5PM SAT]

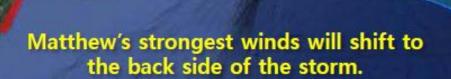
Location: Approx. 15 miles WSW of Cape Fear, NC

Max Sustained Winds: 75 MPH Movement: ENE at 13 MPH

Min Central Pressure: 28.85" (977 mb)

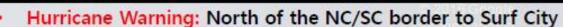
MON 2AM 50 MPH

> MON 2PM 40 MPH



SUN 2AM 70 MPH

These winds will persist over land even after Matthew moves away from NC

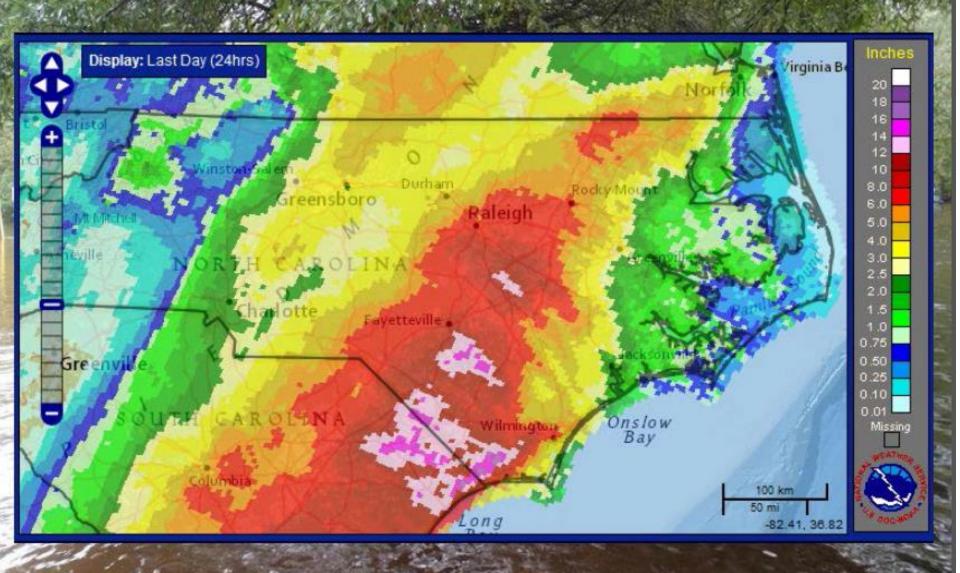


- Tropical Storm Warning: North of Surf City to Duck (including Pamlico & Albemarle Sounds)
- Hurricane Watch: North of Surf City to Cape Lookout

# ESTIMATED RAINFALL

LAST 24 HOURS - AS OF 6PM





# RAINFALL REPORTS

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HURRICANE MATTHEW



Valid Sunday, October 09, 2016 (1:30 PM)

業也之	Location	Rainfall
	White Oak (Bladen)	16.71"
	Goldsboro (Wayne)	15.24"
大大	Hope Mills (Cumberland)	14.71"
	Chadbourn (Columbus)	12.90"
1	Lumberton (Robeson)	12.47"
	Elm City (Nash)	11.95"
	Edenton (Chowan)	11.88"
3	Windsor (Bertie)	11.07"
47	Point Harbor (Currituck)	10.73"
377	Easons Crossroads (Gates)	10.60"
	Garner (Johnston)	10.22"

# WIND REPORTS HURRICANE MATTHEW

Valid Sunday, October 09, 2016 (as of 2:00PM)



	Location	Max Wind Gust	
	St. James Plantation (Brunswick)	86 mph	
	Hatteras (Dare)	82 mph	
11	Federal Point (New Hanover)	82 mph	
FF	Jacksonville (Onslow)	72 mph	
1/2	Beaufort (Carteret)	70 mph	16
	Elizabeth City (Pasquotank)	69 mph	
	Lumberton (Robeson)	67 mph	
5	Cherry Point (Craven)	64 mph	
	Back Island (Pender)	64 mph	
	Currituck (Currituck)	62 mph	
	Greenville (Pitt)	59 mph	

#### NCDOT Preparing for Matthew

Division of Highways – preparation began Tuesday, October 4th

- Frequent communication with field staff
- Field prepared their equipment and personnel
- Reviewed emergency operations procedures





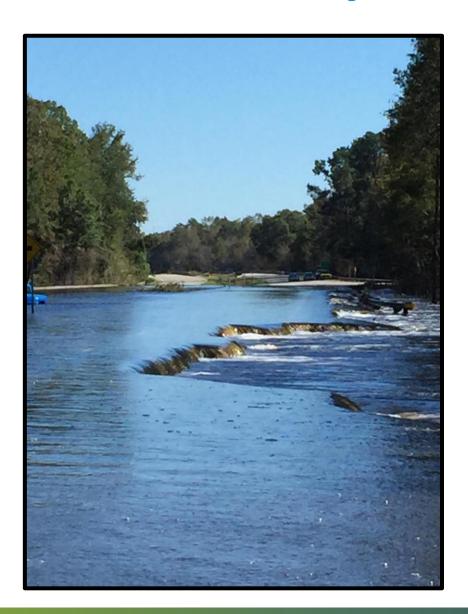
### During the Storm

Communication with other state agencies and local government Activation of State Emergency Response Team





#### Response and Recovery



- Road Closures
- Coordinating Detours
- Shifting Resources
- 511 & Call Center
- Identify Damaged Sites
- NCDOT Flooded Facilities



# Response and Recovery – Road Closures

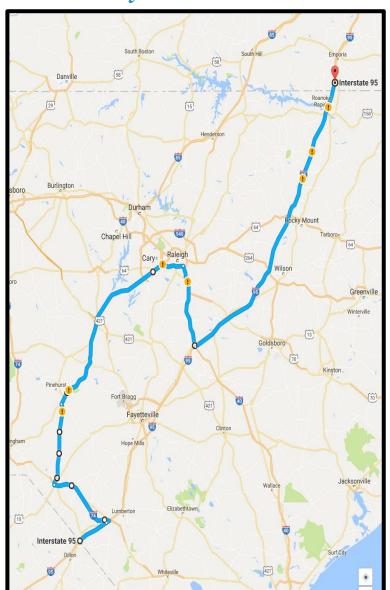
- At height of storm over 600 closures
- Currently over 500 closures





#### Response and Recovery - Detours

- I-95 north bound and south bound detours
- Coordination with Highway Patrol
- Coordination with local law enforcement
- Coordination with Virginia DOT and South Carolina DOT

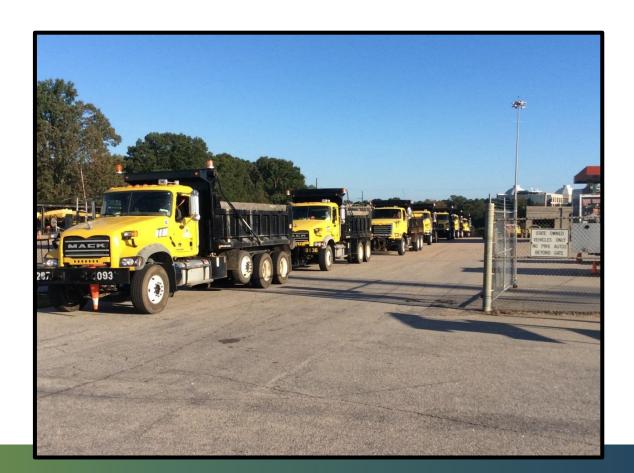




0 Transportation

#### Response and Recovery

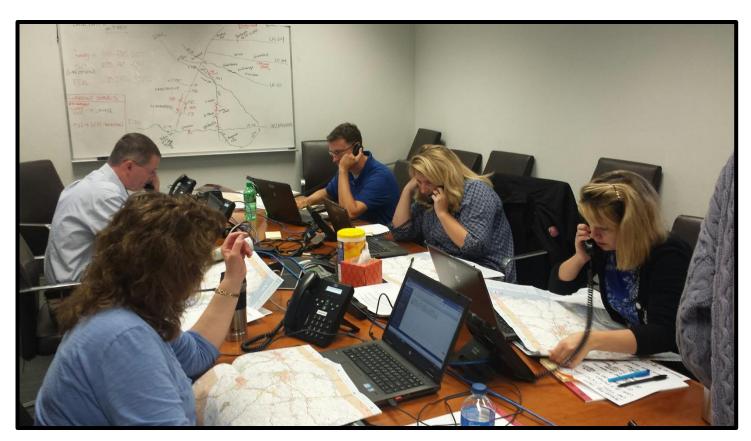
- Approximately 90% of the workforce in Divisions 1, 2, 3, 4, 5, 6 & 8 utilized
- Over 360 personnel were mobilized from west and piedmont to assist
- Additionally, personnel assisted from other groups such as traffic systems, operations, support, design and modal division staff





### Response and Recovery – 511 & Call Center

- 511 Over 120,000 customer service inquiries
- Call Center Over 5,000 calls received





### Response and Recovery – Damaged Sites

- 841 identified FEMA route sites to date
- 311 identified FHWA route sites to date





# Response and Recovery – Damaged Sites



# Flooded Facilities



Transportation

# Flooded Facilities



16 Transportation

# Recovery and Rebuilding – The Road Ahead!







# Recovery and Rebuilding – The Road Ahead!

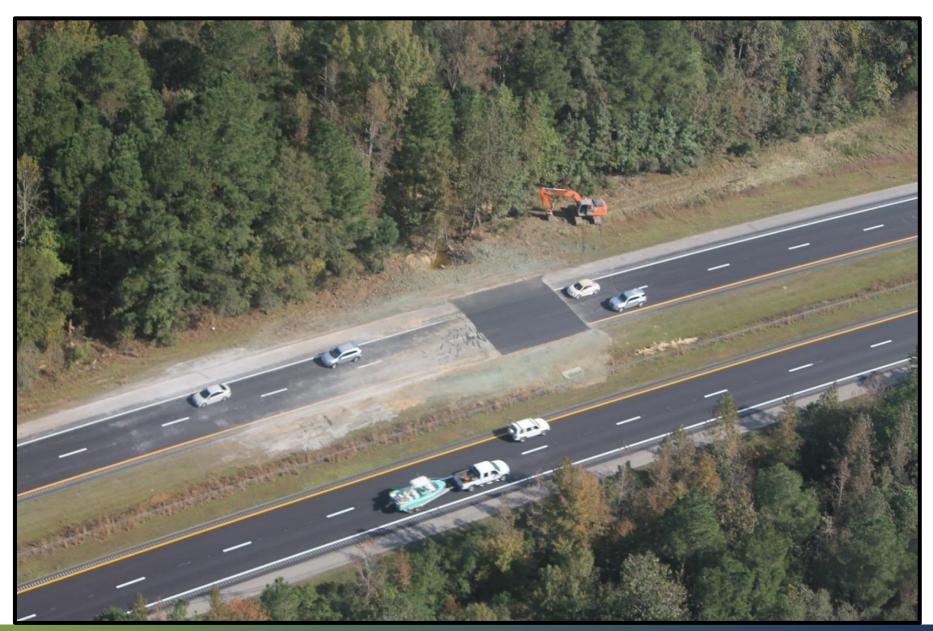








# Restoring Mobility



#### Federal Reimbursements

#### **FEMA**

- Typically State Maintained Secondary Routes
- Declaration Threshold for Reimbursement Eligibility: ~ \$13M Statewide
- Category A: Debris Removal Sliding Scale Reimbursement
  - 85% (days 1 30)
  - 80% (days 31 90)
  - 75% (days 91 180)
- Category B: Emergency Protective Measures 75%
- Category C: Roads and Bridges 75%
- Category E: Buildings and Equipment 75%

#### **FHWA**

- Typically US, NC and Interstate Routes
- Declaration Threshold for Reimbursement Eligibility: \$700,000 for NCDOT
- New from MAP-21, FHWA does not participate in debris removal except for non-FEMA declared counties that have been declared by the Governor.
- Emergency Repair Reimbursements
  - 100% for all Federal Aid routes (up to 180 days)
  - 90% on Interstates (after 180 days)
  - 80% on all other Federal Aid routes (after 180 days)
- Permanent Repair Reimbursements
  - 90% on Interstates
  - 80% on other Federal Aid routes



### Questions?

